Edited by PAOLO ROSSI, M.D.

FUNCTIONAL EVALUATION AND REHABILITATION OF CARDIAC PATIENTS

Edited by PAOLO ROSSI, M.D.

Clinical Professor of Medicine Director, Department of Cardiology General Charity Hospital, Novara, Italy

Consultant Cardiologist of Cardiac Rehabilitation Center of Veruno, Novara, Italy

Published by

MEDICAL BOOKS

Distributed by



YEAR BOOK MEDICAL PUBLISHERS

35 EAST WACKER DRIVE, CHICAGO, ILLINOIS

Library of Congress Catalog Card No. 78-65878 ISBN 0-88372-125-2

Copyright © 1979

MIAMI, FLORIDA,33161

Printed in the U.S.A.

FUNCTIONAL EVALUATION AND REHABILITATION OF CARDIAC PATIENTS

International Symposium on Functional Evaluation and Rehabilitation of Cardiac Patients, Stresa, Italy

此为试读,需要完整PDF请访问: www.ertongbook.com

The book is dedicated to: my wife Cecilia and my sons Luca, Andrea, Marco

Acknowledgments

I am very grateful to Prof. H. Denolin, President of the European Society of Cardiology, to Prof. F. Rovelli, Vice-President of the European Society of Cardiology and to Prof. S. Maugeri, Director of the Clinical del Lavoro Foundation, University of Pavia, for having made this Symposium possible.

I want to express my appreciation to Dr. B. Carù, cardiologist of Ospedale Cà Granda and Miss M. Cavallieri for having greatly helped me in the organization of the Symposium.

I wish to thank Prof. C. Cernigliaro, resident in cardiology of Ospedale Maggiore, Novara, for his excellent work in supervising the papers.

I acknowledge the splendid work and cooperation of my colleagues from Centro Medico, Veruno and Ospedale Maggiore, Novara, in the diagnosis, cure and rehabilitation of our patients.

To my wife Cecilia, all my gratitude for having organized and successfully conducted the social programs.

The Symposium was under the patronage of

European Society of Cardiology
Italian Society of Cardiology
Italian Hospital Cardiologists Association
Italian Centers for Cardiovascular Disease Association
Novara Medical Culture Association

Foreword

While management of ischemic heart disease is still a matter of controversy among cardiologists, the old firmly established concept of absolute bedrest, followed by a prolonged period of reduced physical activity in order to increase life expectancy of coronary patients, has been gradually abandoned in the last 20 years.

This revolutionary attitude is the result of an extensive documentation of the deleterious effects of prolonged bedrest, physical deconditioning and related emotional disturbances in patients with myocardial infarction. At the same time it has become increasingly apparent that physical capacity evaluation followed by a programmed rehabilitation, integrated with the necessary psychological, medical and surgical interventions, can ameliorate more effectively the patient's physical and mental status.

This Symposium was devoted to the functional evaluation and rehabilitation of the patient with myocardial infarction. The scientific sessions covered the following topics:

- 1. Indications, methods, validity and prognostic value of stress testing.
- 2. Indications to coronaroangiography and correlation to stress testing.
- 3. Functional evaluation of ischemic heart disease, aortocoronary bypass, transplanted hearts.
 - 4. Early stress testing in myocardial infarction.
- 5. Early and late rehabilitation of patients with myocardial infarction: comparison of methods, complications, early- and long-term results.
- 6. Role of drugs on the effects of rehabilitation and on the management of complications.
- 7. Psychological aspects and influence of rehabilitation on the personality of the infarcted patient.

This volume expresses very well indeed our present knowledge of the problems of physical evaluation and rehabilitation

xiv FOREWORD

of myocardial infarction patients. The many authorities who have contributed to it have presented their results obtained in many parts of the world. Conflicting opinions on the same topic are partly explained by the different environmental and organizational conditions.

To all the contributors my sincere appreciation.

Paolo Rossi, M.D.

Director, Department of Cardiology

General Charity Hospital, Novara, Italy

Contents

Foreword xiii
$\begin{array}{lll} {\tt STRESS\ TESTS-FUNCTIONAL\ EVALUATIONS-}\\ {\tt CORONAROGRAPHY} \end{array}$
The Natural History of Coronary Atherosclerosis
Exercise Testing in Cardiology: Validity, Procedures and Interpretation
Isometric Stress Test in Coronary Patients
Correlation of Resting ECG, Exercise ECG and Continuous Ambulatory Monitoring in the Detection of Ventricular Dysrhythmias 57 G. De Backer,* J. P. Van Durme,† M. Bogaerts,‡ T. Weyne† and R. Pannier† *Fonds National de Recherches Scientifiques † Department of Cardiology, Akademisch Ziekenhuis, Ghent, Belgium ‡Heymans Institute of Pharmacology, University of Ghent, Belgium
Utility and Reliability of Computer-Assisted Interpretation of Exercise Electrocardiograms

viii CONTENTS

Discriminant Analysis in the Automated Exercise ECG Diagnosis
Prognostic Value of Stress Tests
Exercise Testing and Coronary Angiography
Exercise Testing and Coronary Angiography
Exercise Testing and Coronary Angiography
Physical Evaluation and Left Ventricular Performance in Patients With Aortocoronary Bypasses
The Physical Work Performance of Heart-Transplant Patients NH. Areskog,* W. Haskell,† S. Pope,† J. Schroeder† and E. Stinson‡ *Department of Clinical Physiology, University of Linköping, Region Hospital, Linköping, Sweden † Division of Cardiology, School of Medicine, Stanford University, Stanford, California, U.S.A. †Division of Cardiovascular Surgery, School of Medicine, Stanford University, Stanford, California, U.S.A.
EARLY STRESS TESTS IN ACUTE MYOCARDIAL INFARCTION Early Exercise Testing After Myocardial Infarction

CONTENTS ix

*Cardiac Rehabilitation Center, Veruno, Novara, Italia †Department of Cardiology, Ospedale Maggiore della Carità, Novara, Italia
Early Exercise Testing After Myocardial Infarction
Early Exercise Test After Myocardial Infarction
REHABILITATION OF CARDIAC PATIENTS A Controlled Study of Rehabilitation of AMI Patients P. Rossi,* A. Tamiz,† A. Giordano,† G. Minuco,† M. D'Aulerio* and F. Aina* *Department of Cardiology, Ospedale Maggiore della Carità, Novara, Italia †Cardiac Rehabilitation Center, Veruno, Novara, Italia
Early Rehabilitation After Acute Myocardial Infarction S. Behar, H. Hertzeanu and H. N. Neufeld Heart Institute, Sheba Medical Center, Tel-Hashomer, Israel
Early Exercise Tests and Early Rehabilitation Programs in Patients With Myocardial Infarction
The Influence of Ambulatory Rehabilitation on the Behavior, Personality and Psychophysiological Parameters on Post-Myocardial Infarction Patients
Influence of Walking as Rehabilitation Regime in Patients With Ischemic Heart Disease

X CONTENTS

Institute of Sports Medicine, Charles University, Prague, Czechoslovakia			
Rehabilitation of Patients With Complicated Myocardial Infarction D. L. Dorossiev, * B. T. Devetakov† and I. A. Perchev‡ *Department of Cardiac Rehabilitation, Sanatorium of Cardiovascular Diseases, Bankja, Bulgaria †Clinic of Cardiology, Scientific Institute of Cardiovascular Diseases, Medical Academy, Sofia, Bulgaria ‡Laboratory of Functional Evaluation, Sanatorium of Cardiovascular Diseases, Bankja, Bulgaria		•	. 247
Complications Occurring in Patients After Myocardial Infarction During Rehabilitation S. Rudnicki, J. Barylak and S. Czarńiak Rehabilitation Clinic of Medical Academy in Warsaw and Hospital of Cardiac Rehabilitation, Konstancin, Poland	·	ů:	. 255
Comparison of Methods for Rehabilitation of Patients With Myocardial Infarction Stanislaw Rudnicki Clinic of Rehabilitation, Medical Academy in Warsaw and Hospital of Cardiac Rehabilitation of Konstancin, Poland			. 259
Experiences From a Controlled, Multifactorial Secondary Prevention Study Juha Hakkila and Olavi Luurila Second Department of Medicine, University Central Hospital, Helsinki, Finland	á	•	. 267
Experiences From the WHO Collaborative Study on Secondary Prevention			. 275
Post-Myocardial Infarction Angina B. Carù and C. De Ponti Department of Cardiology A. De Gasperis, Ospedale Maggiore di Milano, Milano, Italia	٠	•	. 281
Late Follow-up (11 to 56 Months) of 71 Myocardial Infarction Patients Suitable for Rehabilitation	g .¥.	•	. 287

CONTENTS xi

DRUGS AND REHABILITATION
Role of Physical Training on Drug Receptor Response C. Cernigliaro Department of Cardiology, Ospedale Maggiore della Carità, Novara, Italia
Digitalis in Rehabilitation
A Controlled Study of Antiarrhythmic Effect of Beta-Blockers and Bunaphtine on Exercise A. Giordano,* A. Tamiz, * B. Schiavo,* G. Minuco* and P. Rossi† *Cardiac Rehabilitation Center, Veruno, Novara †Department of Cardiology, Ospedale Maggiore della Carità, Novara, Italia
Effects of Verapamil Therapy With Stress Testing Evaluation 319 W. Martiny, W. Bottone, F. Matta and P. F. Angelino Department of Cardiology, Ospedale Maggiore di San Giovanni Battista e della Città di Torino, Turin, Italia
Effects of Oxprenolol Upon Rehabilitation of Myocardial Infarction
PSYCHOLOGIC ASPECTS OF REHABILITATION Psychological Problems of Cardiac Patients Suitable to Rehabilitation
Psychological Problems of Cardiac Patients Suitable for Rehabilitation

xii CONTENTS

Analysis of the Behavior and of the Profound Dynamics of AMI
Patients and Effects of the Rehabilitation
A. M. Zotti, * A. Giordano, * A. Tamiz, *
B. Schiavo* and P. Rossi†
*Cardiac Rehabilitation Center, Veruno, Novara, Italia
† Department of Cardiology, Ospedale Maggiore della Carità, Novara, Italia
Psychological Peculiarities of Post-Infarction Patients
During Rehabilitation
A. Sponza
Cardiac Rehabilitation Center, Ospedali Riuniti,
Trieste, Italy
Closing Remarks
H. Denolin
President de la Société Européenne
de Cardiologie, Bruxelles, Belgique
Subject Index xv

Stress Tests — Functional Evaluations — Coronarography